AMENDMENTS TO THE SPECIFICATION:

Please replace page 3, line 4 with the following:

where ~~t R, x Rn, and Rm~~ $t\in R$, $x\in R^n$, and $\lambda\in R^m$ represents time, an n-dimensional state space,

Please replace page 3, lines 14 – 15 with the following:

a solution of ~~x(t) = (t, x0,)~~ $x(t) = \varphi(t, x_0, \lambda)$, if ~~<t<~~ $-\infty<t<\infty$, with respect to any initial value ~~x0 Rn~~ $x_0\in R^n$ and all the system parameters ~~R m :x(0)= (0, x0,)= x0~~ $\lambda\in R^m : x(0)=\varphi(0, x_0, \lambda) = x_0$.

Please replace page 4, line 2 with the following:

In the case where the solution ~~x(t) = (t, p0,)~~ $x(t) = \varphi(t, p_0, \lambda)$ of differential equation (1)

Please replace page 4, line 6 with the following:

the point ~~p0 Rn~~ $p_0\in Rn$ satisfying eq. (5) is called a fixed point with respect to map T.

Please replace page 5, lines 2-4 with the following:

~~where T(x0,), x0, and can be expressed as T(x0,) = [T1(x0,), T2(x0,), ···, Tn(x0,)]T, x0 = x(0) =[x1(0), x2(0), ···, xn(0)]T, and = [1, 2, ···, m]T, respectively. Further,RN is defined as:~~

where $T(x_0, \lambda)$, x_0, and λ can be expressed as $T(x_0, \lambda) = [T_1(x_0, \lambda), T_2(x_0, \lambda), \cdots, T_n(x_0, \lambda)]^T$, $x_0= x(0) =[x_1(0), x_2(0), \cdots, x_n(0)]^T$, and $\lambda = [\lambda 1, \lambda 2, \cdots, \lambda_m]^T$, respectively. Further, $\lambda_u \in R^N$ is defined as:

Please replace page 5, line 9 with the following:

expressed as ~~u Rn+N:u=[x0T, uT]T~~ $u\in R^{n+N}:u=[x_0{}^T, \lambda_u{}^T]^T$, and then an iterative calculation:

Please replace page 5, lines 12-13 with the following:

is performed until the termination condition of ~~II k+1 u – uk II <~~ $\| {}^{k+1}u - u^k \| < \delta$ is satisfied, where ~~F' R (n+N)(n+N)~~ $F' \in R^{(n+N)(n+N)}$ represents the Jacobi matrix of F, i.e.,

Please replace page 6, lines 11 – 14 with the following:

~~and (t, u k)/ . That is, if eqs.(11) are solved from 0 to tT or tck with the Runge-Kutta Method, (tT, uk)/x0, (tck, uk)/x0, (tT, uk)/ , and (tck, uk)/ can be derived. Tk is a function of , and also gk can typically be expressed as a function of , and therefore, from these values, Tk(uk)/ x0,~~

and $\partial \varphi (t, u^k)/ \partial \lambda$. That is, if esqs.(11) are solved from 0 to t_T or t_{ck} with the Runge-Kutta Method, $\partial \varphi (t_T, u^k)/ \partial x_0$, $\partial\varphi (t_{ck}, u^k)/ \partial x_0$, $\partial\varphi (t_T, u^k)/ \partial \lambda$, and $\partial \varphi (t_{ck}, u^k)/ \partial \lambda$ can be derived. T_k is a function of φ, and also g_k can typically be expressed as a function of φ, and therefore, from these values, $T_k(u^k)/ \partial x_0$,

Please replace page 7, line 1 with the following:

~~Tk(u^k)/, gk(tck, u^k)/x0, and gk (tck, uk)/~~ $T_k(u^k)/ \partial \lambda$, $g_k(t_{ck}, u^k)/ \partial x_0$, and $g_k(t_{ck}, u_k)/ \partial \lambda$ can be numerically derived.

Please replace page 7, line 3 with the following:

above-described calculation, and consequently ~~u~~ λ_u that is the design value of the

Please replace page 7, line 20 with the following:

current waveform ~~x(t) = (t, x0,)~~ $x(t) = \varphi (t, x_0, \lambda)$ by providing the circuit equation in an explicit

Please replace page 10, lines 1-3 with the following:

variable x, it is assumed that a solution (output waveform) of ~~x(t) = (t, x0,)~~ $x(t) = \varphi (t, x_0, \lambda)$ can be observed with respect to any initial value ~~x0 R^n~~ $x_0 \in R^n$ and all system parameters ~~R^m :x(0)= (0, x0,)= x0~~ $\lambda \in Rm :x(0)= \varphi (0, x_0, \lambda) = x_0$, where x(t) has periodicity of period t_T

Please replace page 10, lines 9-10 with the following:

necessarily a function of time $t_{C1} \sim t_{Cn}$, but functions of x_0 and {¯} $\underline{\lambda}$. Consequently, in the prior method, only a condition for a time response {→} $\underline{\varphi}$ at a certain time tc

Please replace page 10, line 16 with the following;

responses {→} $\underline{\varphi}$ derived from the circuit equation, observations in a domain other

Please replace page 10, line 25 with the following:

observed ~~x(t) = (t, x0,)~~ $\underline{x(t) = \varphi\ (t, x_0, \lambda)}$. On the other hand, the elements of the Jacobi

Please replace page 11, line 11 with the following:

where {→} $\underline{\varepsilon}$ is an infinitesimal coefficient $g(u_{\varepsilon}\ i)$ can be derived by substituting $u_{\varepsilon}\ i$

Please replace page 11, line 15 with the following:

and consequently the design value {→} $\underline{\lambda}_u$ is decided, whereby the design of the

Page 12, please delete lines 26 and 27.

Page 13 , please delete in its entity.